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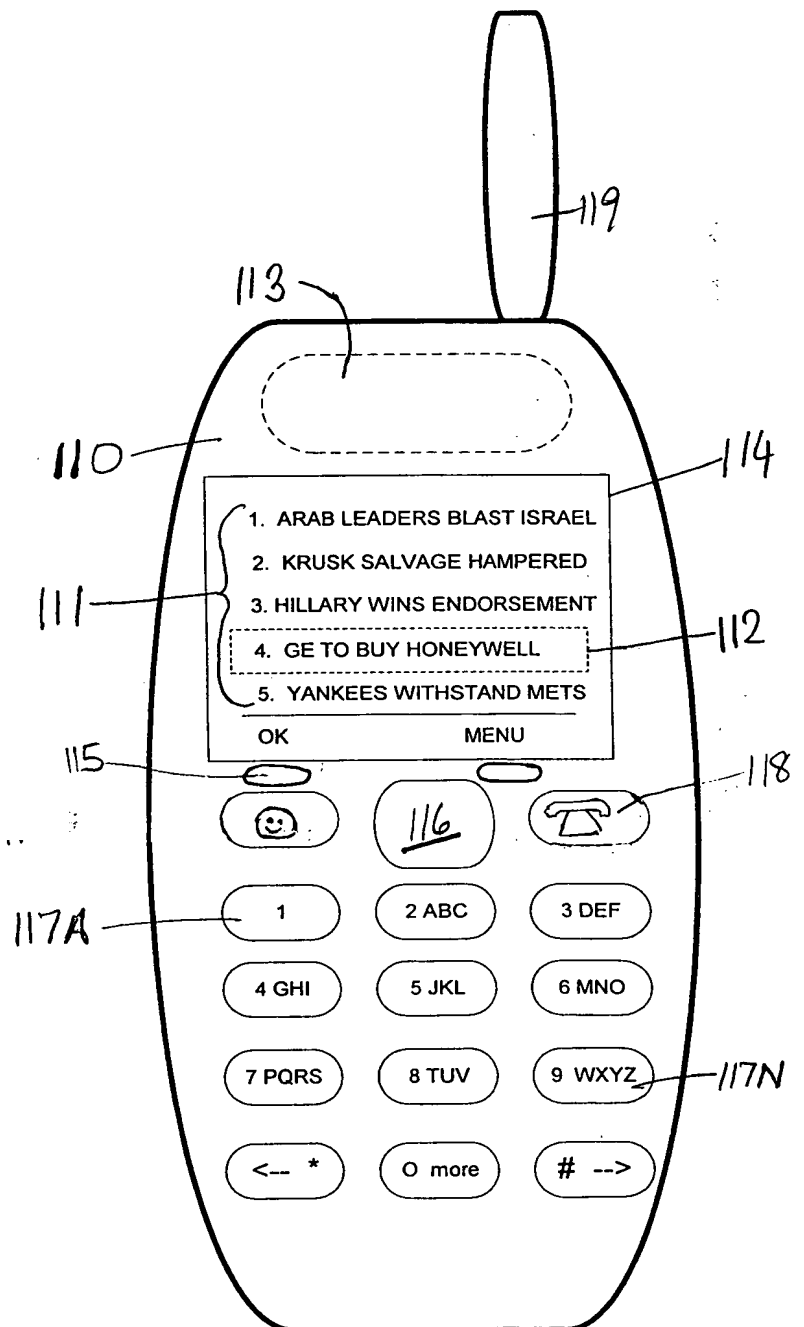
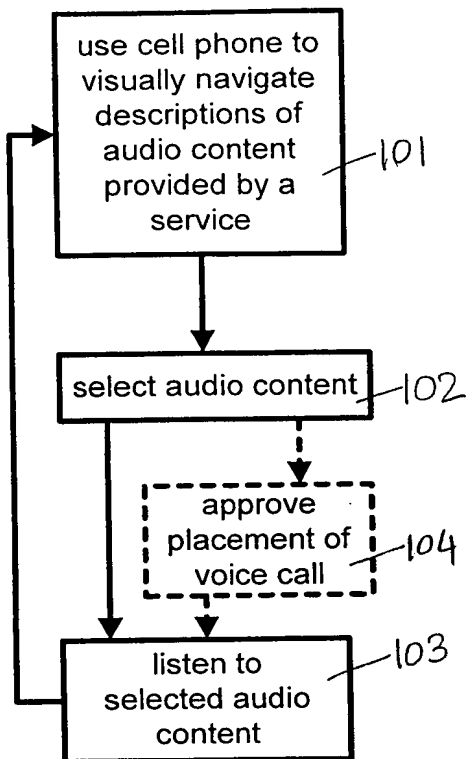


FIG. 3A

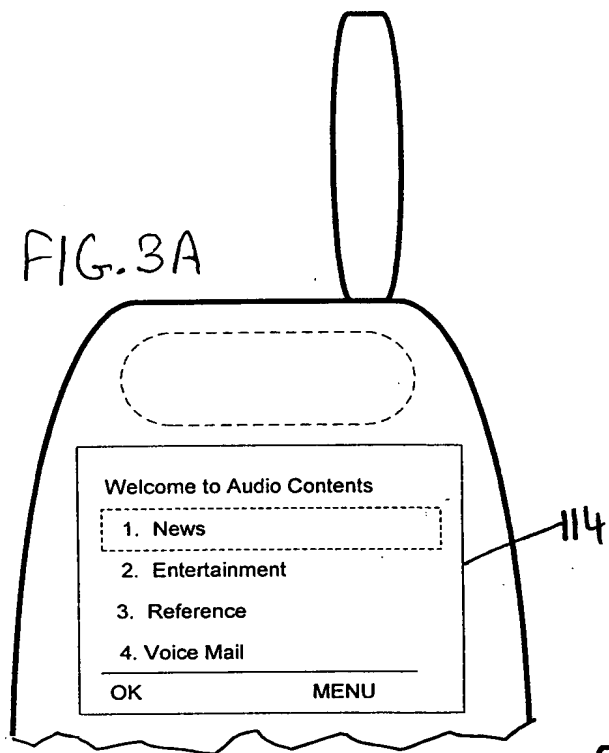


FIG. 3B

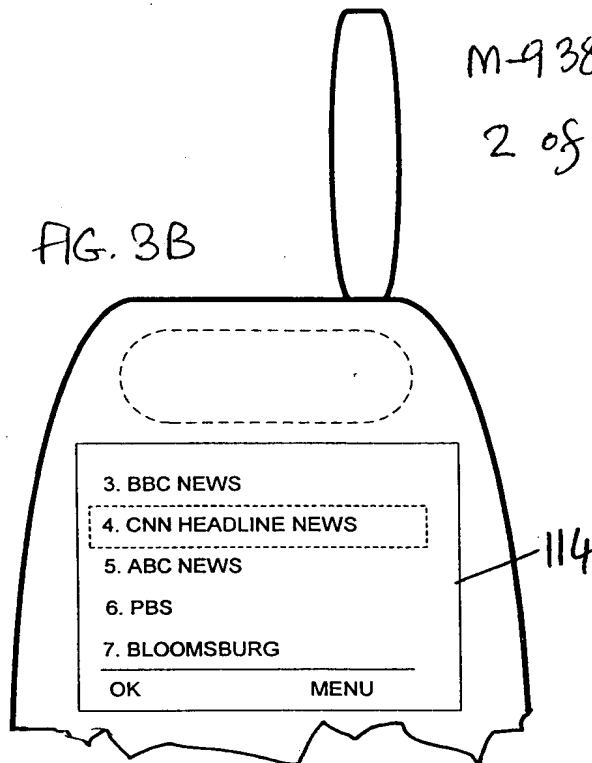


FIG. 4

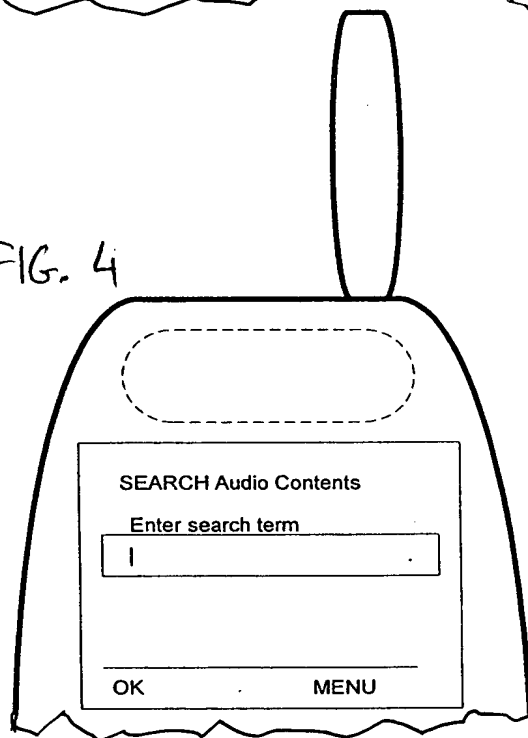


FIG. 5

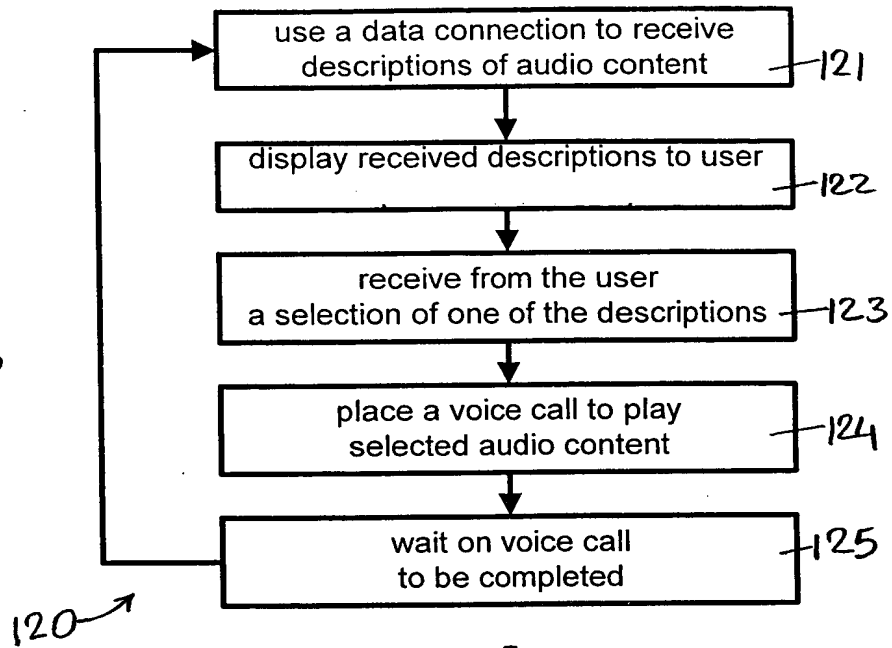
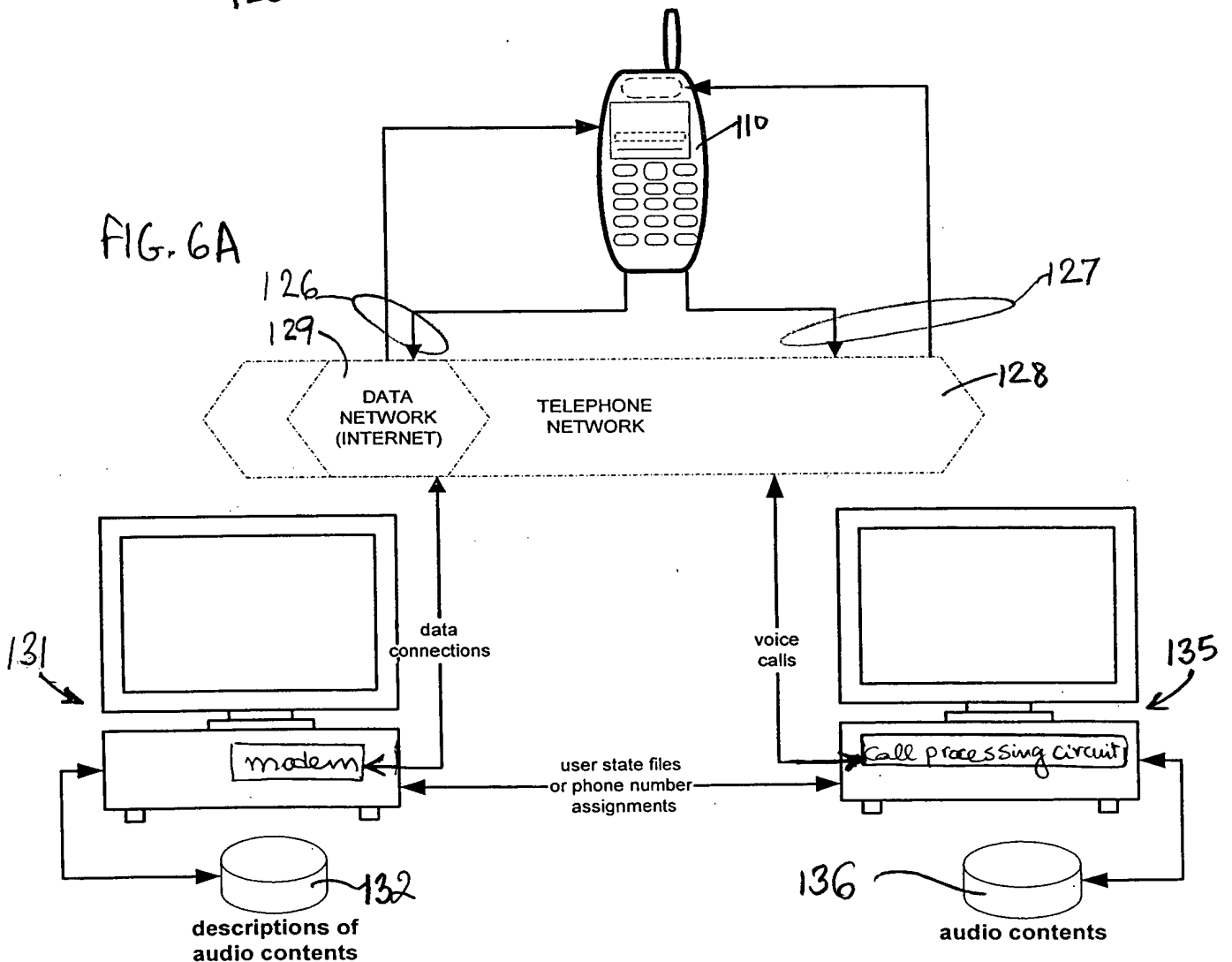


FIG. 6A



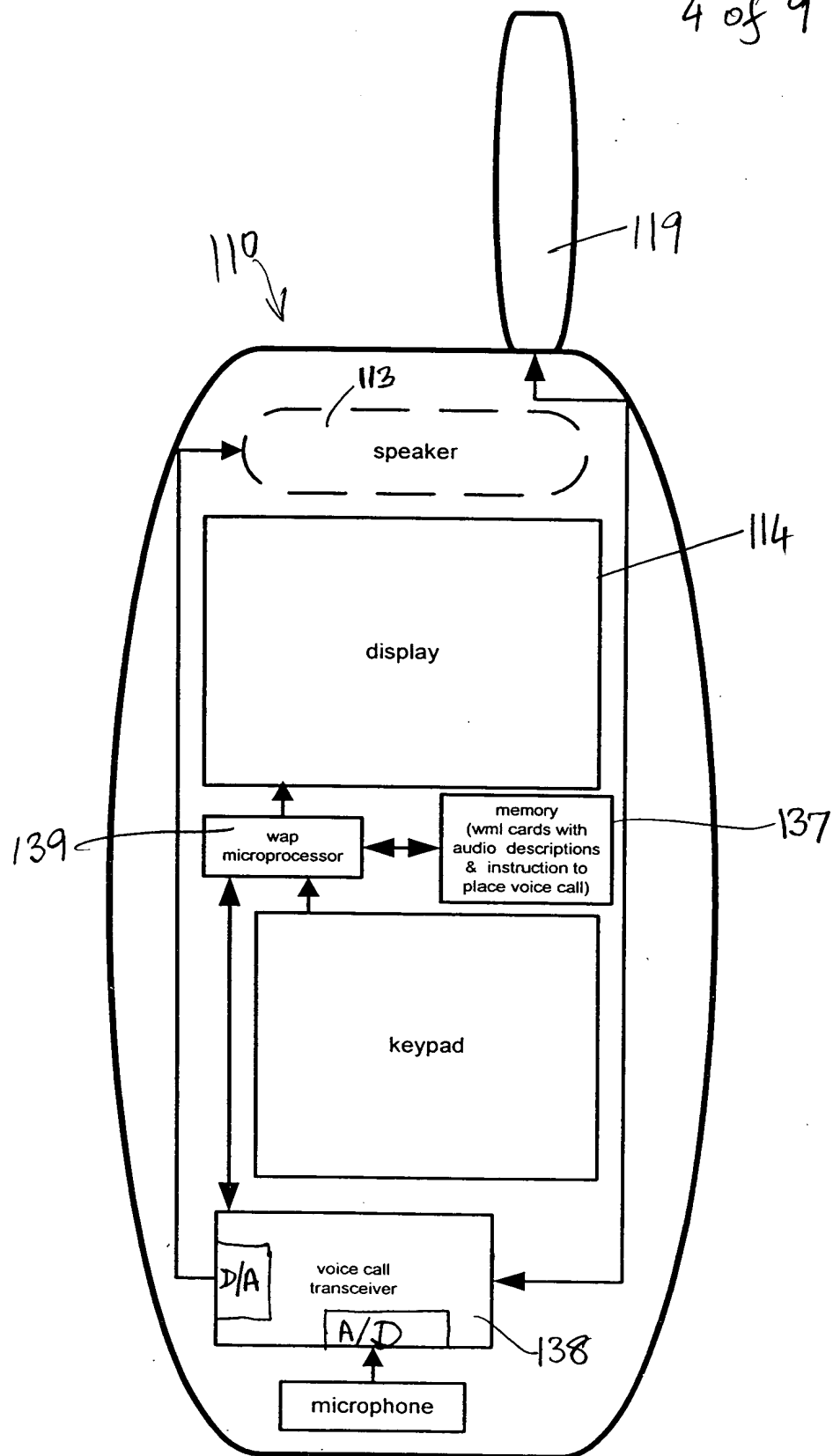


FIG. 6B

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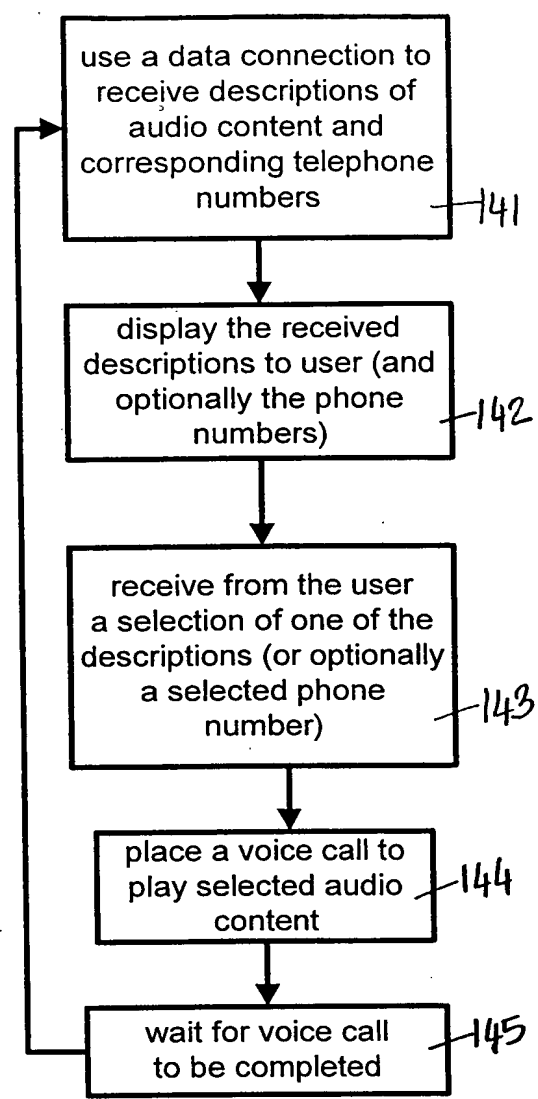


FIG. 7

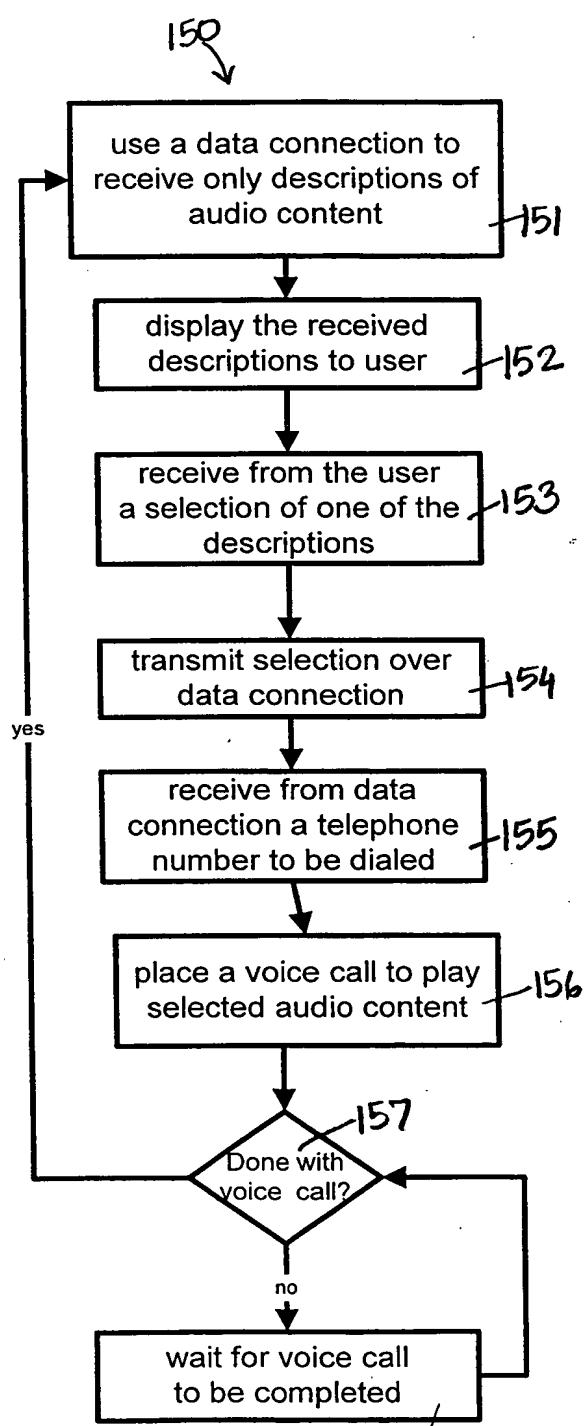


FIG. 8

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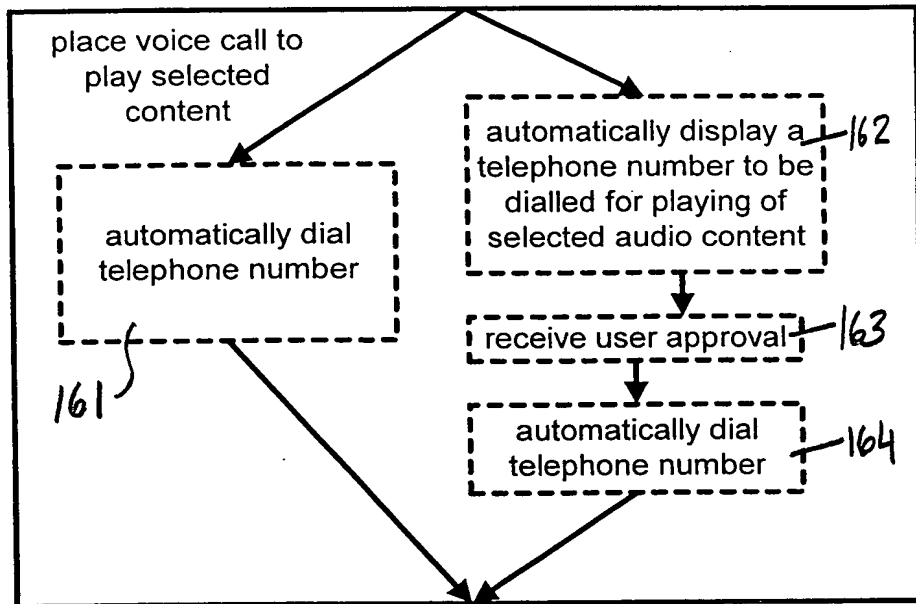


FIG. 9

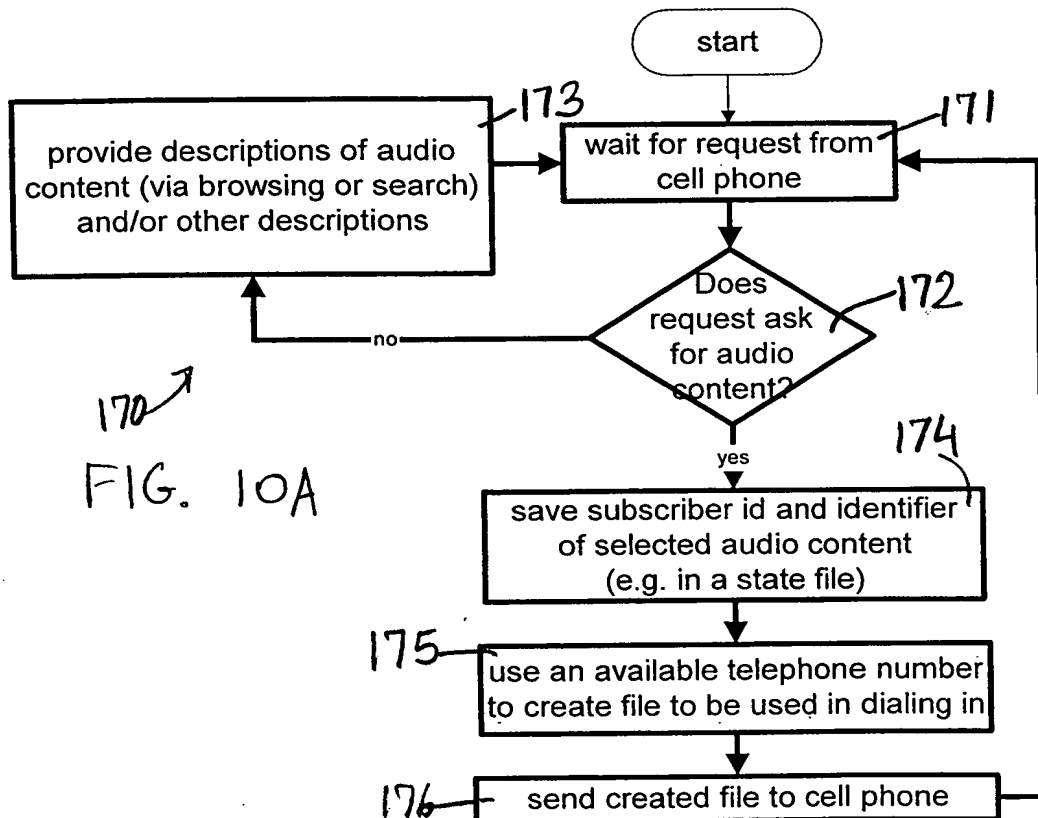


FIG. 10A

content (dbo)							Example Data	
Column Name	Datatype	Length	Precision	Scale	Allow Nulls			
content_id	int	4	10	0				1513
subcategory_id	int	4	10	0				151300012
crawl_id	int	4	10	0				1265
content_num	int	4	10	0				0
description	varchar	80	0	0				headlines for Intel
crawler_info	varchar	200	0	0				<NULL>
body_url	varchar	400	0	0				
title_file	varchar	127	0	0				<NULL>
title_type	char	1	0	0				N
body_file	varchar	127	0	0				\\BLUE01\content\stock\blint.txt
body_type	char	1	0	0				T
encoding_file	varchar	127	0	0				<NULL>
encoding_id	int	4	10	0				<NULL>

FIG. 10B

subcategory (dbo)							Example Data	
Column Name	Datatype	Length	Precision	Scale	Allow Nulls			
subcategory_id	int	4	10	0				1000001
crawl_id	int	4	10	0				21011
category_id	int	4	10	0				1
description	varchar	80	0	0				CNN NEWS
content_type	char	1	0	0				A
prompt_file	varchar	127	0	0				\\BLUE1\Bui\prompts\CNN.wav
prompt_type	char	1	0	0				A
play_until	char	1	0	0				B
html_name	varchar	100	0	0				CNN NEWS
crawler_name	varchar	200	0	0				<NULL>
average_duration	int	4	10	0				<NULL>
url	varchar	256	0	0				<NULL>
active	char	1	0	0				Y
default_chosen	char	1	0	0				Y
quality_id	int	4	10	0				1
warning_hours_num	int	4	10	0				3
id_name	varchar	256	0	0				6 CNN NEWS - GENERAL - radio.cnn
active_nuance	char	1	0	0				Y

FIG. 10C

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category *							
Column Name	Datatype	Length	Precision	Scale	Allow Null		
category_id	int	4	10	0			
description	varchar	80	0	0			
prompt_file	varchar	127	0	0			
prompt_type	char	1	0	0			
id_name	varchar	256	0	0		<input checked="" type="checkbox"/>	

FIG. 10D

user (dbo)							
Column Name	Datatype	Length	Precision	Scale	Allow Null		Example Data
user_id	int	4	10	0			8
username	varchar	10	0	0			1357
passwd_digit	varchar	10	0	0			6666
passwd_audio	varchar	127	0	0	<input checked="" type="checkbox"/>		<null>
first_name	varchar	30	0	0			David
middle_name	varchar	30	0	0	<input checked="" type="checkbox"/>		
last_name	varchar	30	0	0			Park
birth_date	char	10	0	0	<input checked="" type="checkbox"/>		20000101
zip_post	varchar	30	0	0	<input checked="" type="checkbox"/>		95070
sex	char	1	0	0	<input checked="" type="checkbox"/>		M
email	varchar	80	0	0			David.Park@Bluewinless.com
volume	smallint	2	5	0			5
speechrec_setting	char	1	0	0			M
trace	char	1	0	0			F
status	char	1	0	0			0
content_id	int	4	10	0	<input checked="" type="checkbox"/>		1
content_type	char	1	0	0			R
last_visit	datetime	8	0	0	<input checked="" type="checkbox"/>		1/1/00
user_model	varchar	127	0	0	<input checked="" type="checkbox"/>		<null>
use_personalization	char	1	0	0			T
company_id	int	4	10	0	<input checked="" type="checkbox"/>		1
subscriber_id	int	4	10	0	<input checked="" type="checkbox"/>		18732149

FIG. 10E

FIG. 11

